

Collective effects in human EEGs at cognitive activity

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Abstract

© Published under licence by IOP Publishing Ltd. In this paper we use the Memory function formalism to study the collective phenomena in EEG signals from subjects with musical abilities ("musicians") and from subjects with a low level of these abilities ("non-musicians") at solving the three cognitive tasks. We have revealed the spectral features in the EEG collective dynamics of these groups, as well as sensor pairs, which have the a different interaction of signals.

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